ABSTRACT OF THE DISCLOSURE

A diagnostic device has a modality for generating raw data representing contents of a volume, a computer for calculating three-dimensional medical images from the raw data, an image system, an input device for setting a transfer function required for an algorithm and a display device for the medical images. The image system determines a histogram distribution of the gray-scale values, and the image system inserts user interface graphics into the displayed image which shows the histogram distribution of the gray-scale values in a histogram window and symbolically represents a trapezoidal transfer function on which values characterizing input fields for transfer functions are arranged at the associated points. A transfer function is on the basis of entries in the input fields and the selected transfer function is inserted in the histogram distribution of the gray-scale values.